

Current detector for controller of e.g. inverter circuit, uninterruptable power supply - has magnetic substance core inserted and attached to multilayer bodies which include detection substrate laminated with printed coil on surface of sheet

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Patent Family

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JP 8285895	A	19961101	JP 9592144	A	19950418	199703	B
JP 3052774	B2	20000619	JP 9592144	A	19950418	200033	

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Abstract:

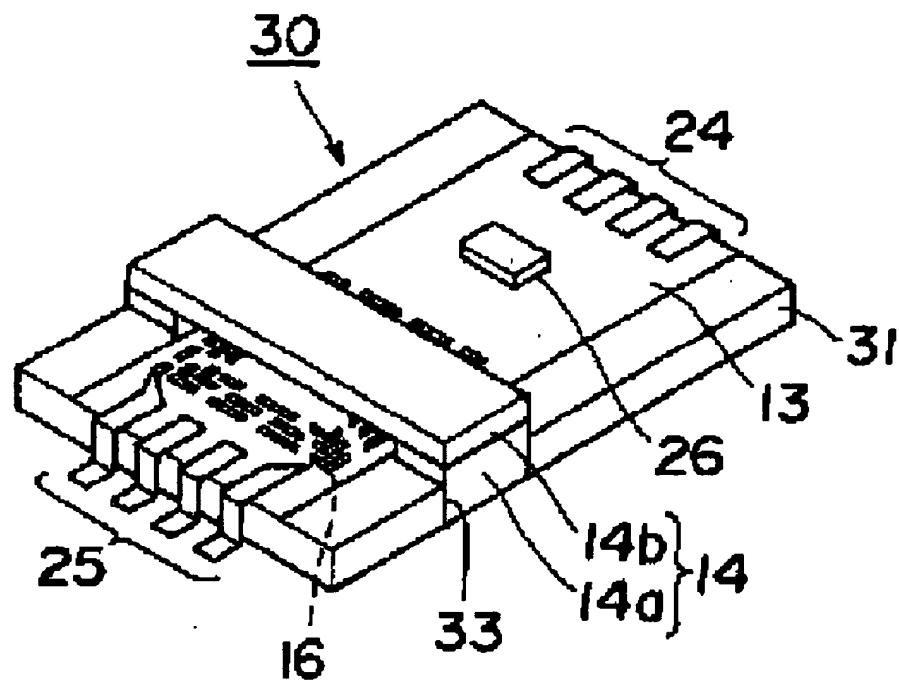
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The detector (30) includes a printed coil (16) formed in the shape of a film on the surface of a sheet. A detection substrate that senses flux, is laminated together with the printed coil comprising a multilayer body (13). A magnetic substance core (14) is inserted and attached to the multilayer body.

ADVANTAGE - Reduces cost due to less number of components and obtains thin-pad current detector since coil is formed in shape of film, eliminating bobbin and conductor winding wire. Enables mfg. of thin appts. using thin-pad current detector. Accurately performs relative alignment of coil and magnetic substance core and maintains relative position since magnetic substance core is joined to notch.

Suppresses leakage of flux and ensures highly precise current detection. Increases strength of multilayer body and increases endurance of current detector since planar reinforcement board is provided at side of multilayer body. Avoids direct contact of magnetic substance core and multilayer body since magnetic substance core is joined through notch. Prevents disconnection of circuit and peeling of component.

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